



USGS Land Change Monitoring, Assessment, and Projection

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What is LCMAP?

- It is a modernized, integrated approach to mapping, monitoring, synthesizing, and understanding the complexities of land use, cover, and condition change.
- Basic foundational elements include:
 - “Analysis-ready” Landsat archive
 - Land change and land cover data derived from all available Landsat data
 - Independent reference data for validation and area estimation.
 - Assessments focused on land change processes, characteristics, and consequences.
 - Scenario driven projections of future LULC extents and patterns
 - Services that support the use and understanding of land change monitoring information products.

Why is the USGS implementing LCMAP?

- Continue long-standing USGS land cover commitment
- Set the foundation for a Federal land monitoring system
- Modernize access to the Landsat archive
- Meet USGS land change science needs:
 - Support geographic research on understanding the connections between human activity and natural systems
 - Improve understanding of the combined impacts of climate and land use change